Tuesday, 10/17/2006 3:20:08 PM Kim Johnston User **Process Sheet** : UTILITY POD **Dart Helicopters Services Drawing Name** Customer CU-DAR001 Job Number : 29056 -11783 **Estimate Number** : D2694 **Part Number** NJA P.O. Number : D2694 / D2202 **Drawing Number** : 10/17/2006 S.O. No. : ルル This Issue Project Number : N/A Prsht Rev. : G/F3 : PURCHASED PARTS **Drawing Revision** Type First Issue : NA Material : 29055 **Previous Run** Each : 11/25/2006 Qty: **Due Date** 1 Um: Written By Checked & Approved By Reformat; Modify'steps 2,3.4.5 RF Comment : Est. **Additional Product** Job Number: Description: Machine Or Operation: Seq. #: Doubler D30011 1.0 Comment: Qty.: 3.0000 Each(s)/Unit Total: 3.0000 Each(s) Doubler Pick: **Qty Part Number** Description U 06.10-18 x3 D3001-1 Doubler Ship to Delastek PURCHASING 2.0 PG Comment: PURCHASING Issue P/O: 80.10.18 Description: D2202-1 Pod Lid D2202-3 Pod Base Supplier: Delastek Copy of Certificate of Comformity and Process sheet from Delastek is required PACKAGING RESOURCE #1 3.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Receive & Inspect For Transit Damage Ensure certificate of conformity and process sheet from Delastek is attached DIMENSIONAL CHECK 4.0 QC6 Comment: DIMENSIONAL CHECK Visual inspection. Check for void spot and pins. Check over all dimensions as per Dwg D2202.

Page 1

Form: fprocess

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W/O:			W	ORK ORDER CH	ANGES		,			
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						QA: N/	C Close	d:	_ Date: _	
NCR:		,	WORK ORD	ER NON-CONFO	RMANC	E (NCR)				
		Description of NC		Corrective Action	Section B		Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descrip Chief Eng	tion	Sign & Date	Secti		Chief Eng	QC Inspector
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Tuesday, 10/17/2006 3:20:08 PM Date: Kim Johnston User: **Process Sheet Drawing Name: UTILITY POD** Customer: CU-DAR001 Dart Helicopters Services Part Number: D2694 Job Number: 29056 Job Number: Description: Seq. #: **Machine Or Operation:** Side Pod Lid D22021 5.0 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Comment: Qty.: Side Pod Lid Side Pod Base 6.0 D22023 Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Side Pod Base D22049 Rubber Latches 7.0 5.0000 Each(s)/Unit Total: 5.0000 Each(s) Comment: Qty.: **Rubber Latches** Pick: Description, Batcl **Qty Part Number** D2204-9 Latch D2429041 Spring Clip Ass'y 8.0 Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Spring Clip Ass'y Pick: Part Number Description Qty Spring Clip Assembly 1 D2429-041 D2462 Neoprene Seal 9.0 Comment: Qty.: 14.1700 f(s)/Unit Total: 14.1700 f(s) Seal Pick: **Qty Part Number** Description 1 D2462-1700 Neoprene Seal

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DATE	STEP	PRO	OCEDURE CHAN	IGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DATE	STEP	Description of NC	Initial	Corrective Action	Section B	Sign &	Verific		Approval	Approval
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Tuesday, 10/17/2006 3:20:08 PM Date: User: Kim Johnston **Process Sheet Drawing Name: UTILITY POD** Customer: CU-DAR001 Dart Helicopters Services Part Number: D2694 Job Number: 29056 Job Number: Description: Seq. #: **Machine Or Operation: Backer Plate** 10.0 D25281 5.0000 Each(s)/Unit Total: 5.0000 Each(s) Comment: Qty.: **Backer Plate** Pick: Part Number Description Batch Qty D2528-1 Backer Plate 1322316 D25283 **Backer Plate** 11.0 4.0000 Each(s)/Unit Total: 4.0000 Each(s) Comment: Qty.: **Backer Plate** Pick: Qty Part Number Description Backer Plate 🖋 4 D2528-3 12.0 D2569 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Comment: Qty.: Hinge Pick **Description Batch** Qty Part Number 13.0 D3007041 1.0000 Each(s)/Unit Total: Comment: Qty.: 1.0000 Each(s) Strut Pick: Qty Part Number Description Batch D3007-041 Prop Assembly 1 AD64ABS 14.0 38.0000 Each(s) Comment: Qty.: 38.0000 Each(s)/Unit Total: > Return Fr stock Pop Rivets Pick: Part Number Description Bate Qty 38 AD64ABSRivet RIVET A062ABS M 100725 PER 03/042

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
07.06.22	14.0	CHANGE ADGAABS RIVET FOR ADG2ABS RIVET. ADG4ABS RIVET ARE INSTALLED AND GRINDED DOWN TO ALLOW UPD TO CLOSE. ADG2 ADS RIVET WILL REQUIRE CLOSE TO NO GRWDING - SEE PARTIES.				4	au-25

Part No:	PAR #:	Fault Category:	NCR: Yes	No	DQA:	 Date:	
			QA: N	/C C	losed:	 Date:	

NCR:			WORK ORDER NON-CONFO				JRIVIANCE (NCR)							
		Description of NC		Corrective Action	Section B		Verification	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Descript Chief Eng	ion	Sign & Date	Section C	Chief Eng	Approval QC Inspector					

Tuesday, 10/17/2006 3:20:08 PM Date: Kim Johnston User: **Process Sheet Drawing Name: UTILITY POD** Customer: CU-DAR001 Dart Helicopters Services Part Number: D2694 Job Number: 29056 Job Number: Description: Seq. #: **Machine Or Operation:** Bolt AN45A 15.0 19.0000 Each(s)/Unit Total: 19.0000 Each(s) Comment: Qty.: Bolt Pick: Description Batch Qtv Part Number Bolt 19 AN4-5A AN46A 16.0 Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Bolt Pick: Part Number Description Batch Qty AN4-6A AN526C632R7 17.0 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Screw Pick: Description Qty Part Number 7864_ AN526C632R7 Screw AN960JD6 18.0 2.0000 Each(s) 2.0000 Each(s)/Unit Total: Comment: Qty.: Washer Pick: Qty Part Number Description AN960JD6 Washer AN960JD416 19.0 Comment: Qty.: 21.0000 Each(s) 21.0000 Each(s)/Unit Total: Washer Pick: Qty Part Number Description Batch 410.3691 21 AN960JD416 Washer

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W/O:			W	ORK ORDER CH	ANGES	3			-	
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DATE	STEP	Description of NC	1_11_1	Corrective Action	Section 6	3 Sign &	Verific		Approval	Approval
	O.L.	Section A	Initial Chief Eng	Action Descrip	otion	Date	Section	on C	Chief Eng	QC Inspector
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Tuesday, 10/17/2006 3:20:08 PM Date: Kim Johnston User: **Process Sheet** Drawing Name: UTILITY POD Customer: CU-DAR001 Dart Helicopters Services Job Number: 29056 Part Number: D2694 Job Number: Description: Machine Or Operation: Seq. #: Nut 20.0 MS21042L4 Comment: Qty.: 20.0000 Each(s) 20.0000 Each(s)/Unit Total: Nut Pick: Qty Part Number Description Batch MS21042L4 Nut (or -4) 🚣 MS21042L06 21.0 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Nut Pick: Part Number **Description Batch** Qtv 1046.03_ MS21042L06 Nut (or -06)_ SMALL & MEDIUM FAB RESOURCE 1 SMALL FAB 1 22.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 Drill hinge, Lid and base as per dwg D2694 DIMENSIONAL CHECK 23.0 QC6 Comment: DIMENSIONAL CHECK SMALL & MEDIUM FAB RESOURCE 1 SMALL FAB 24.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 Assemble as per Dwg D2694 Use DT8023 for (10) holes on base. INSPECT WORK TO CURRENT STEP QC5 25.0 Comment: INSPECT WORK TO CURRENT STEP PACKAGING RESOURCE #1 PACKAGING 26.0 Comment: PACKAGING RESOURCE #1 Identify and Stock PP 26935 Location:

W/O:		WORK ORDER CHANGES										
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
Part No) :	PAR #: Fault Category:	NCR: Yes	No DQ	A: <u></u>	Date:	7/04/26					

QA: N/C Closed: ____

Date: _____

NCR:		V	ORK OR	DER NON-CONFO	RMANCE	(NCR)			
		Description of NC		Corrective Action	Section B	Section B		Ammerical	A
DATE	STEP	Section A	Initial Chief Eng	Action Descrip	tion 02202-3	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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0206.21	22.0	W /	QSIOU2	Delastek repla D2202-3 base o On lay-up: geld Up. See NCR 130	eve to	5	Col Col) Josiaiz	10706-21

Date: User:

Tuesday, 10/17/2006 3:20:09 PM Kim Johnston

Customer: CU-DAR001 Dart Helicopters Services

Process Sheet

Drawing Name: UTILITY POD

Job Number: 29056

Part Number: D2694

Job Number:



Seq. #:

Machine Or Operation:

Description:

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



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	CHEC	(ED "	APPROVED	DRAWING NO.	REV. G
		#	1	D2694 SHE	ET 1 OF 4
	DATE		·A	TITLE	SCALE
-	01.0	5.08		UTILITY POD ASSEMBLY	NTS
	Α		97.07.02	NEW ISSUE CREATED TO REPLACE D350-602-041 AND -043	



DATE		TITLE SCALE
01.0	05.08	UTILITY POD ASSEMBLY NTS
А	97.07.02	NEW ISSUE CREATED TO REPLACE D350-602-041 AND -043
В	97.10.08	CHANGE RIVET PATTERN, ADD D2429
С	98.11.12	ADD DOUBLER HOLES, REMOVE FINISH
D	99.01.08	SEAL & HINGE CHANGE (TSR A1047 & A855/A858); INCLUDED DE09119
Ε	99.12.20	CHANGE DIMENSIONS
F	01.03.20	REDESIGN, CHANGE LATCHES & PROP
G	01.05.08	REVERT BACK TO D2204-9 LATCH

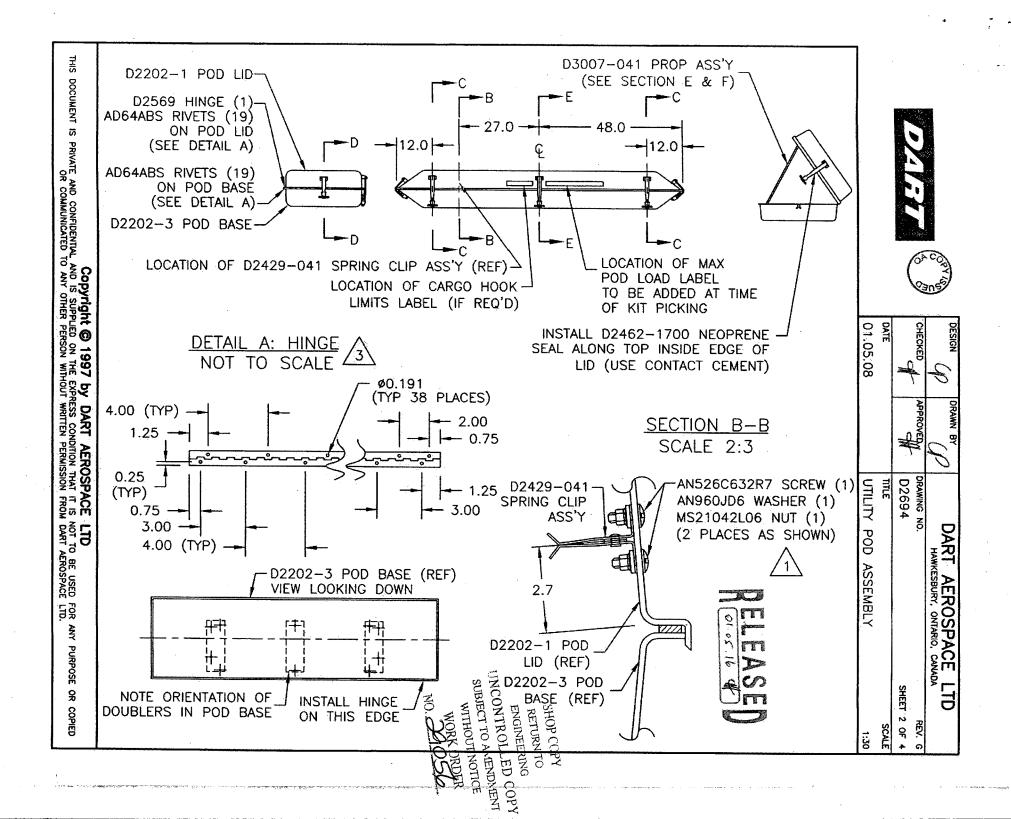
Qty	Part Number	Description
1	D2202-1	POD LID
1	D2202-3	POD BASE
5	D2204-9	LATCH
1	D2429-041	SPRING CLIP ASSEMBLY
1	D2462-1700	NEOPRENE SEAL
5	D2528-1	BACKER PLATE
4	D2528-3	BACKER PLATE
1	D2569	HINGE
1	D3007-041	PROP ASSEMBLY
19	AN4-5A	BOLT
1	AN4-6A	BOLT
2	AN526C632R7	SCREW
21	AN960JD416	WASHER
2	AN960JD6	WASHER
2	MS21042L06	NUT (OR MS21042-06)
20	MS21042L4	NUT (OR MS21042-4)
38	AD64ABS	RIVET

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GENERAL NOTES:

- TRANSFER DRILL UNSPECIFIED HOLES FROM ATTACHING PART AS FOLLOWS: AN526C632 → DRILL Ø0.141 AN4 → DRILL Ø0.257
- SEAL ALL HOLES AND EDGES OF POD WITH CYANOACRYLATE GLUE. 2)
- FOR D2569 HINGE: 3)
 - (i) INSTALL RIVET HEADS FROM OUTSIDE OF POD.
 - (ii) GRIND TRAILING EDGE OF RIVET TO PERMIT HINGE TO CLOSE.
 - (iii) ENSURE ALL RIVET HOLES ARE DRILLED ON THE LARGER HINGE TABS AS SHOWN IN DETAIL A. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN INCHES.
- 4)
- 5)

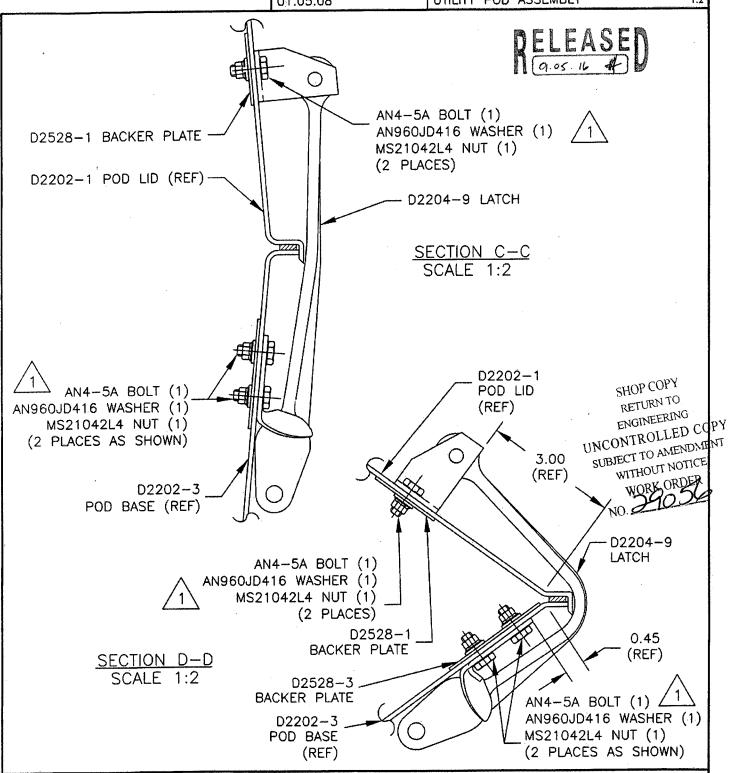
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1	DATE	<u> </u>	TITLE	SCALE
	01.05.08		UTILITY POD ASSEMBLY	1:2



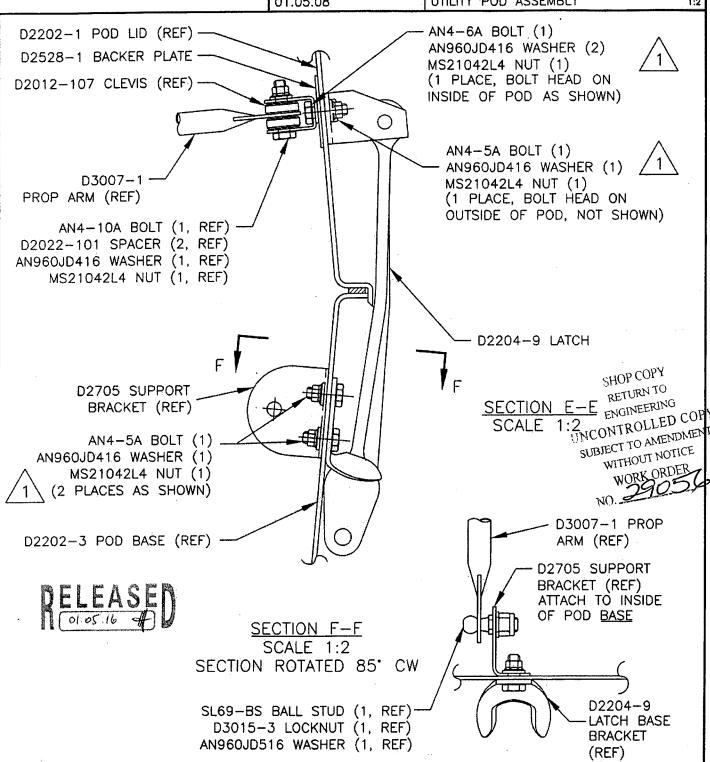
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	01.05.08		UTILITY POD ASSEMBLY		1	1:2



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DATE		TITLE	SCALE
01.0	03.14	UTILITY POD LID AND BASE	NTS
Α	93.10.27	NEW ISSUE	·
В	96.12.16	ADD DOUBLERS AND HOLES	

RELEASE OI. 03.30 P

DEOs EFFECTIVE Des 9217 Rev. A 01.09260

	CHEC	KED A	APPROVED	DRAWING NO. REV. F
1		AT .	A	D2202 SHEET 1 OF 4
ı	DATE			TITLE SCALE
_	01.0	03.14		UTILITY POD LID AND BASE NTS
	Α		93.10.27	NEW ISSUE
	В		96.12.16	ADD DOUBLERS AND HOLES
	С		97.07.04	REVISED DOUBLER/HOLE LOCATIONS
	D		98.11.09	MOVED DOUBLERS, REMOVED HOLES
l	Ε		99.11.11	ADDED SECTIONS WITH LIP DIMS
1	F		01.03.14	CHANGE LAYUP, DOUBLER, NOW DRILLED
l	FI	4-14	03.05 08	ADD ALTERMITE FINISH
	F2	#1	03.08.22	CLARITY FORM DIMENSION + PLACEMENT.
	F3	#1	04.10.12	CHANGE FOAM PIN POR NUR 798

1) LAMINATE PER DART QSI 006. LAMINATION SCHEDULE PER THIS DRAWING.

2) MATERIALS:

4) FINISH:

RESIN: EPOCAST 50-A/9816 OR DERAKANE

470-36/411/510A40

FOAM: A500 CORE-CELL, OR DIVINYCELL,

OR AIREX, 0.38 THICK (3/8 FOAM)

9.7 OZ 7781 WEAVE "S" GLASS (90Z SATIN) THOP COPY FIBRE: RETURN TO

5 OZ PLAIN WEAVE KEVLAR (50Z KEVLAR)

3) PEEL PLY ALL SURFACES.

PRIMER, EPOXY PRIMER WHITE 4500-PB-40 BASE COAT, CHROMATE BASEMAKER 9175S

URETHANE CLEAR COAT, CHROMATE 7500S

5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

6) ALL DIMENSIONS ARE IN INCHES.

7) ALTERNATE FINISH: INSIDE -> DUPONT HIGHBUILD GREY PRIMER 1144-5

WHITE GELCONT # GEL 944W005



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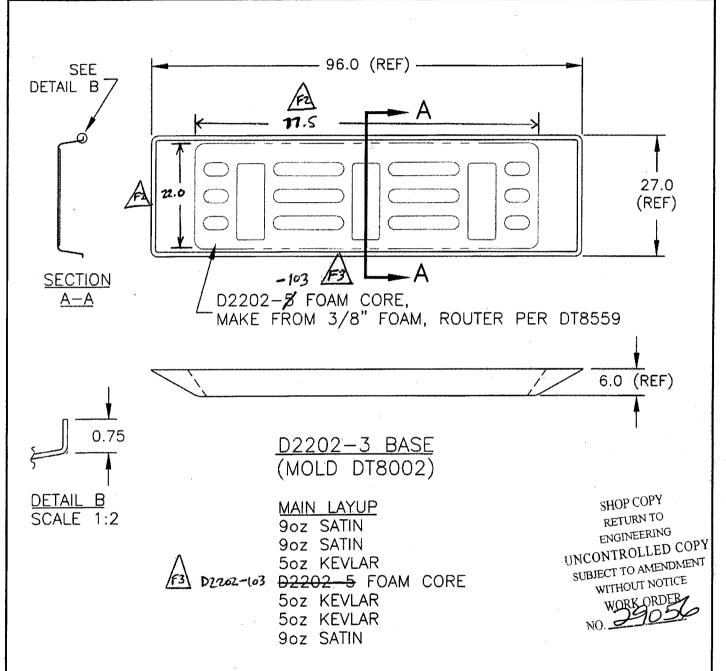
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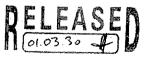
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01.03.14		UTILITY POD LID AND BASE	1:20





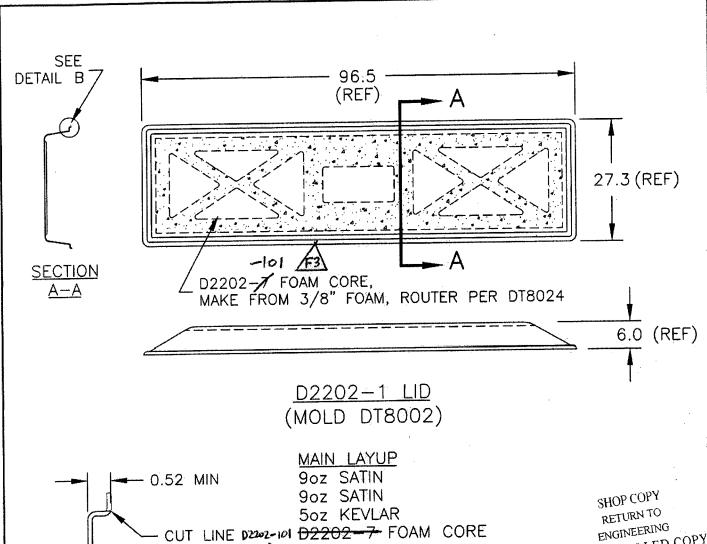
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	CHECKED	APPROVED	DRAWING NO. D2202	REV. F SHEET 3 OF 4
	DATE	<u> </u>	TITLE	SCALE
	01.03.14		UTILITY POD LID AND BASE	1:20



DETAIL B SCALE 1:2 5oz KEVLAR

9oz SATIN

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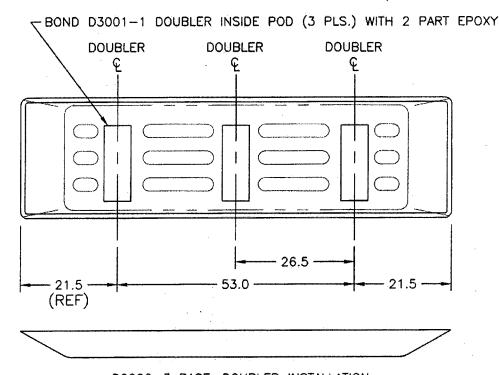
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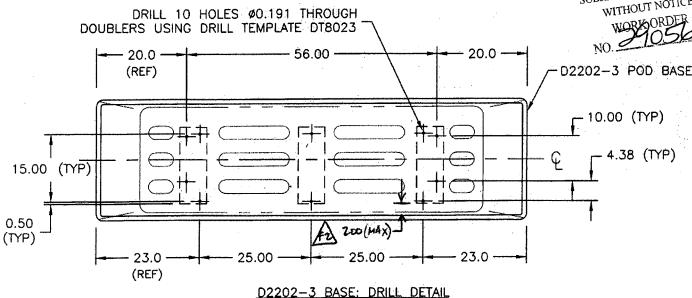
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DATE	···ki	TITLE	SCALE
01.03.14		UTILITY POD LID AND BASE	1:20



D2202-3 BASE: DOUBLER INSTALLATION

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Page Rev: A Date: 04.12.01

Composite Repair Manual



Procedure Issue Date: 04.12.01

Issue No: 02

9.4 <u>EDGE REPAIR</u>

SECT.	DESCRIPTION	DIAGRAM REFERENCE ONL'
9.4.1	PREPARE SURFACE, IN ACCORDANCE WITH SECTION 4.0 SURFACE PREPARATION.	DAMAGE AREA COMPOSITE SKIN TO RE-BUILD SECTION D-D
9.4.2	LAY UP 9 oz CLOTH WITH RESIN TO MATCH ORIGINAL THICKNESS OF THE SECTION. CURE AT ROOM TEMPERATURE. USE A BACKING PLATE WITH RELEASE FILM, WHERE SECTION NEEDS TO BE RE—BUILT.	LAY UP ORIGINAL THICKNESS WITH 9 oz CLOTH BACKING PLATE WITH RELEASE FILM SECTION D-D
9.4.3	REMOVE THE BACKING PLATE AND RELEASE FILM AFTER CURING, LAY UP 2 PLIES OF 9 oz CLOTH ON BOTTOM OF PREVIOUS PLIES AS SHOWN, CURE AT ROOM TEMPERATURE.	2.0" (50 mm) 1.5" (38 mm) 1.0" (25 mm)
9.4.4	AFTER CURING, SMOOTH THE SURFACE AND TRIM EDGES TO MATCH PROFILE.	2 PLIES OF 9 oz CLOTH
9.4.5	PAINT TO MATCH COLOR.	SECTION D-D

Quality System Instruction 037

Composite Repair Manual



Procedure Issue Date: 04.12.01

Issue No: 02

9.1 HOLE REPAIR IN COMPOSITE SKIN

		REFERENCE ONLY
SECT.	INSTRUCTION	DIAGRAM
9.1.1	PREPARE SURFACE, IN ACCORDANCE WITH SECTION 4.0 SURFACE PREPARATION.	/- PLIES OF 9 oz CLOTH
9.1.2	CUT OUT THE HOLE BY REMOVING THE AREA 0.125" (3 mm) BEYOND THE END OF ANY CRACKS AT THE EDGES OF THE HOLE.	DAMAGED AREA 1.5" (38 mm) 1.0" (25 mm) 0.5" (13 mm)
9.1.3	IF THE OPENING AREA IS EQUAL TO OR SMALLER THAN 2.0" (50 mm) × 2.0" (50 mm) FILL UP THE OPENING WITH ADHESIVE PASTE (MIXTURE OF RESIN WITH MILLED FIBERGLASS AND K20 GLASS BUBBLES) FOR DESIRED THICKNESS.	COMPOSITE SKIN — OPENING AREA ADHESIVE PASTE — VIIII A VIIII
9.1.4	IF THE OPENING AREA IS LARGER THAN 2.0" (50 mm) × 2.0" (50 mm), BUT SMALLER THAN 8.0" (200 mm) × 8.0" (200 mm), BOND A PRE-CURED FIBERGLASS SHEET IN THE OPENING WITH ADHESIVE PASTE. THE PRE-CURED SHEET SHALL BE THE SAME THICKNESS AND SIZE OF THE OPENING.	PRE-CURED ADHESIVE PASTE LAMINATE SHEET SECTION A-A
9.1.5	LAY UP 3 PLIES OF 9 oz CLOTH ON BOTH SIDES OF THE OPENING WITH RESIN. CURE AT ROOM TEMPERATURE.	
9.1.6	SMOOTH APPLIED AREA.	→ 3 PLIES OF 9 oz CLOTH
9.1.7	PAINT TO MATCH COLOR.	SECTION A-A

Page Rev: A Date: 04.12.01

Page 6